Mobile Application Development

Prof. Fernando Pinéo

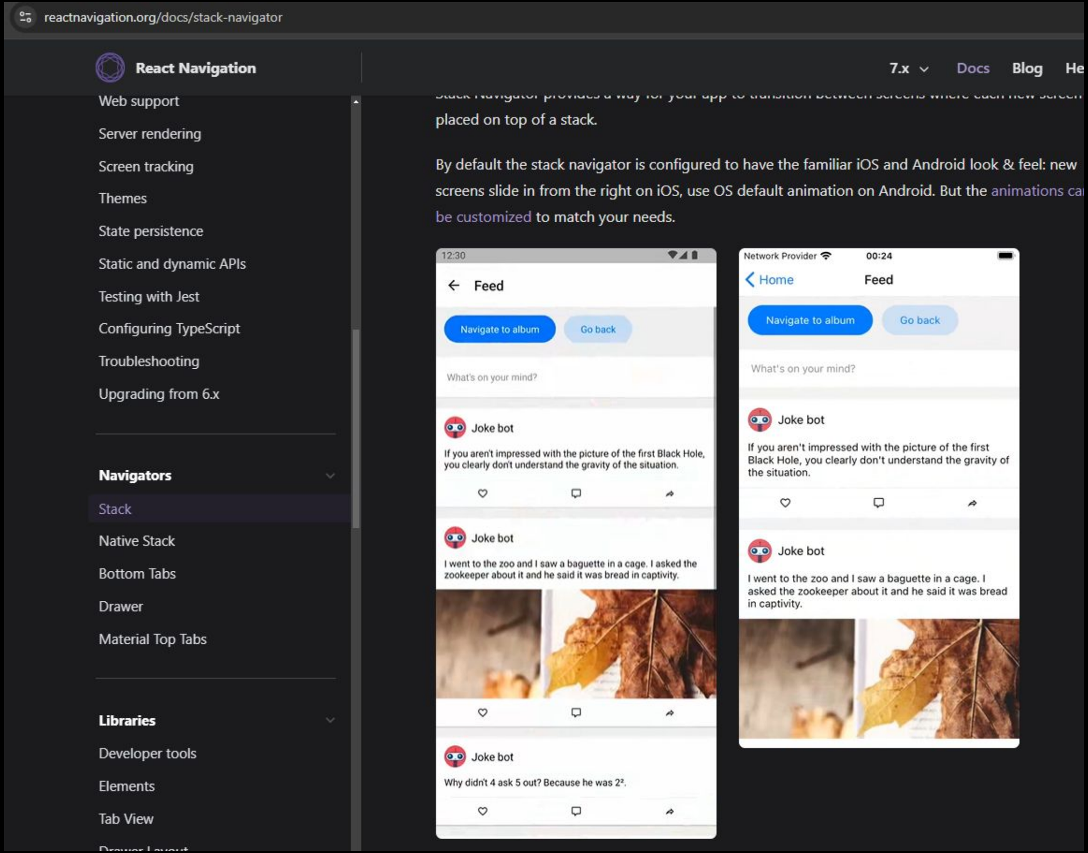
Navegação entre telas

Navegação entre telas

Há 03 formas de navegação entre as telas:

Stack Navigation
Bottom Tabs
Drawer Navigation

Stack Navigation



Stack Navigator provides a way for your app to transition between screens where each new screen placed on top of a stack.

By default the stack navigator is configured to have the familiar iOS and Android look & feel: new screens slide in from the right on iOS, use OS default animation on Android. But the animations ca be customized to match your needs.

If you aren't impressed with the picture of the first Black Hole, you clearly don't understand the gravity of the situation.

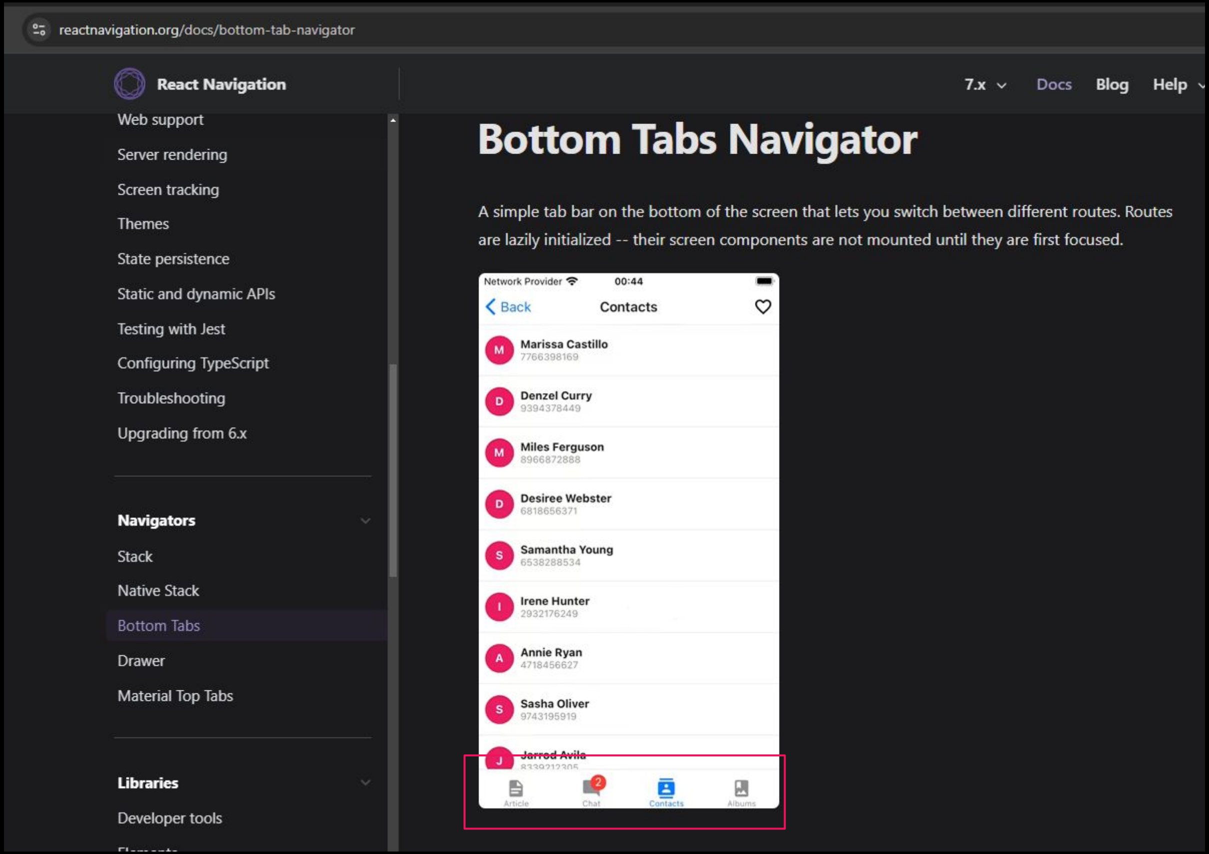
I went to the zoo and I saw a baguette in a cage. I asked the zookeeper about it and he said it was bread in captivity.

Why didn't 4 ask 5 out? Because he was 2².

If you aren't impressed with the picture of the first Black Hole, you clearly don't understand the gravity of the situation.

I went to the zoo and I saw a baguette in a cage. I asked the zookeeper about it and he said it was bread in captivity.

Bottom Navigation

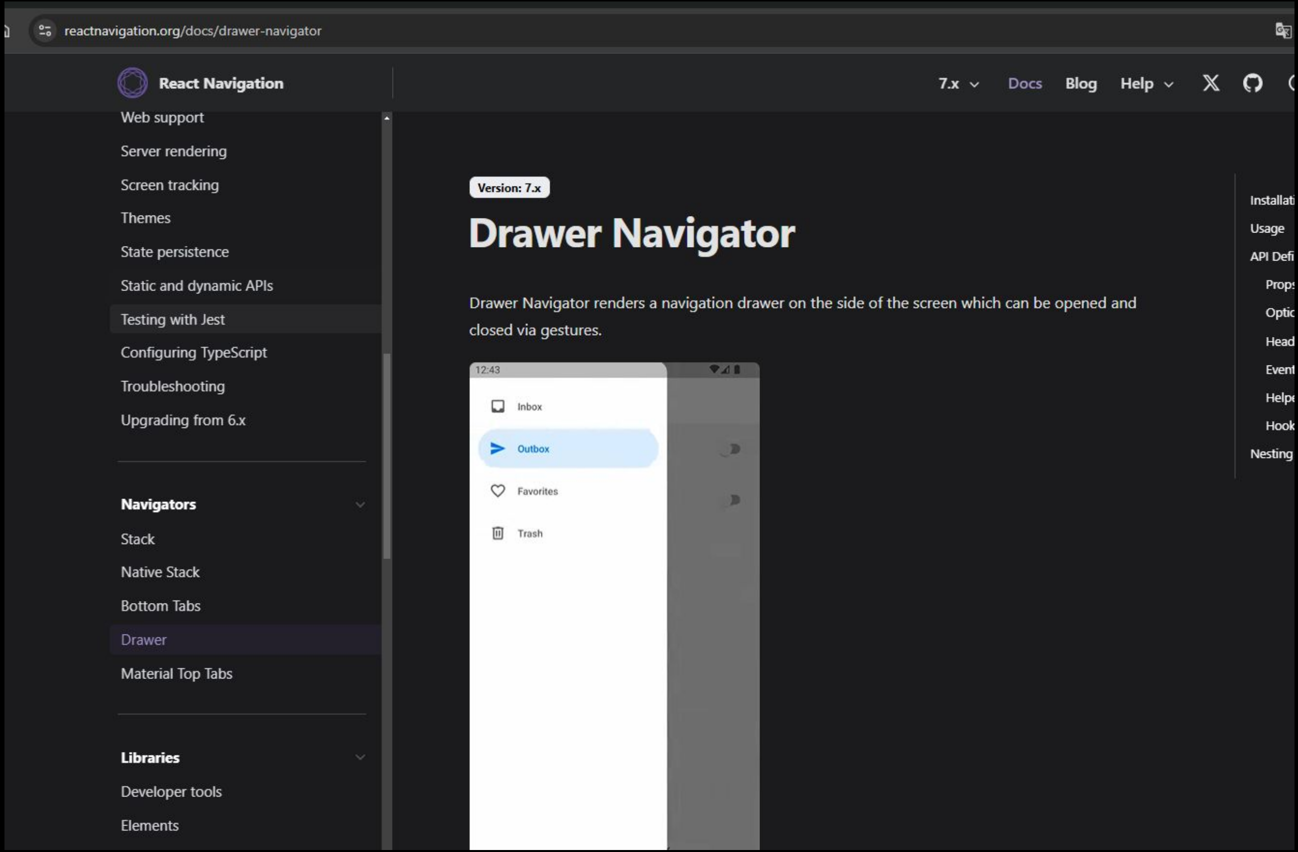


Bottom Tabs Navigator

A simple tab bar on the bottom of the screen that lets you switch between different routes. Routes are lazily initialized -- their screen components are not mounted until they are first focused.

M Marissa Castillo 7766398169
D Denzel Curry 9394378449
M Miles Ferguson 8966872888
D Desiree Webster 6818656371
S Samantha Young 6538288534
I Irene Hunter 2932176249
A Annie Ryan 4718456627
S Sasha Oliver 9743195919
J Jarrod Avila 8339212305

Drawer Navigation

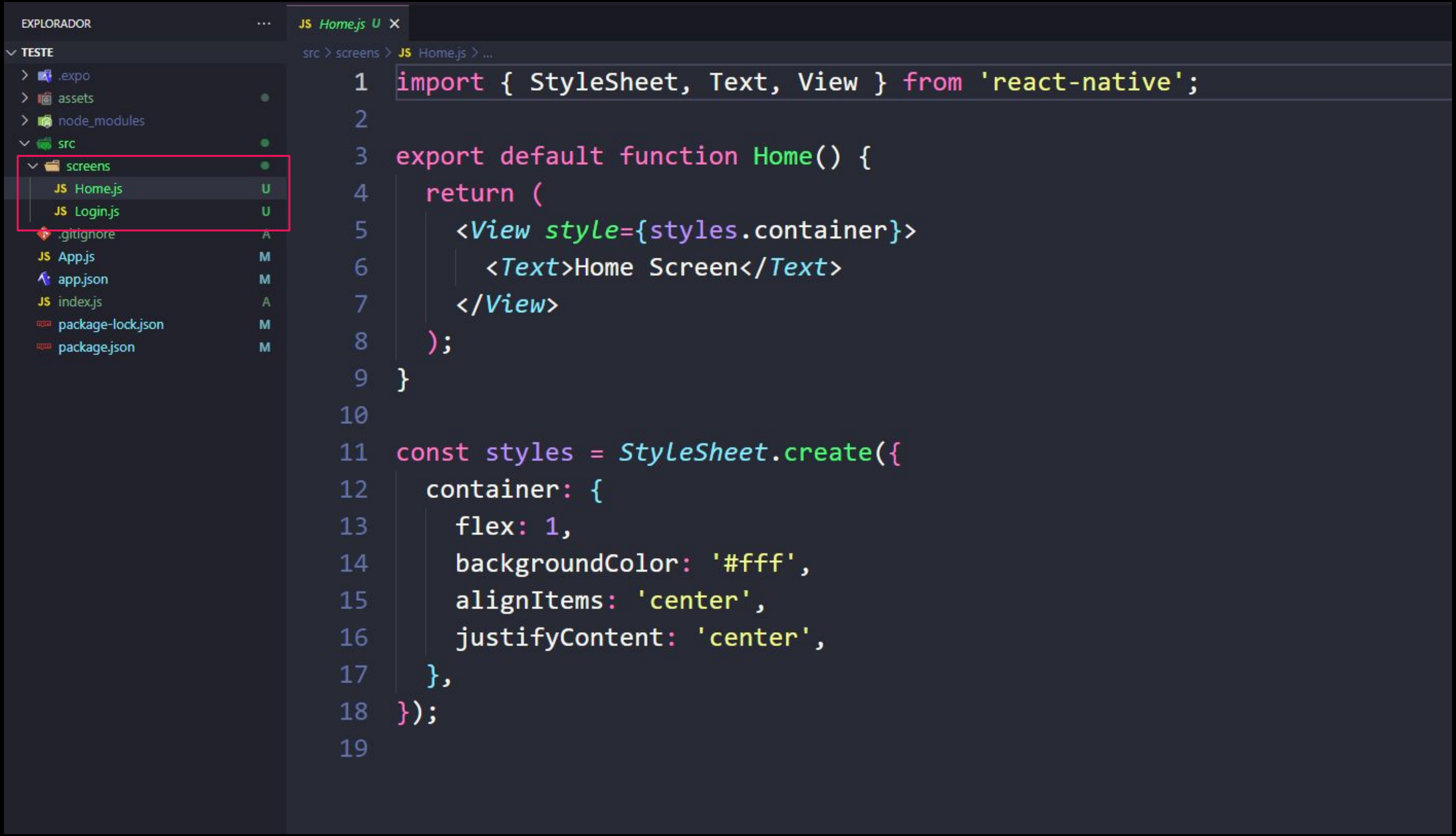


Version: 7.x

Drawer Navigator

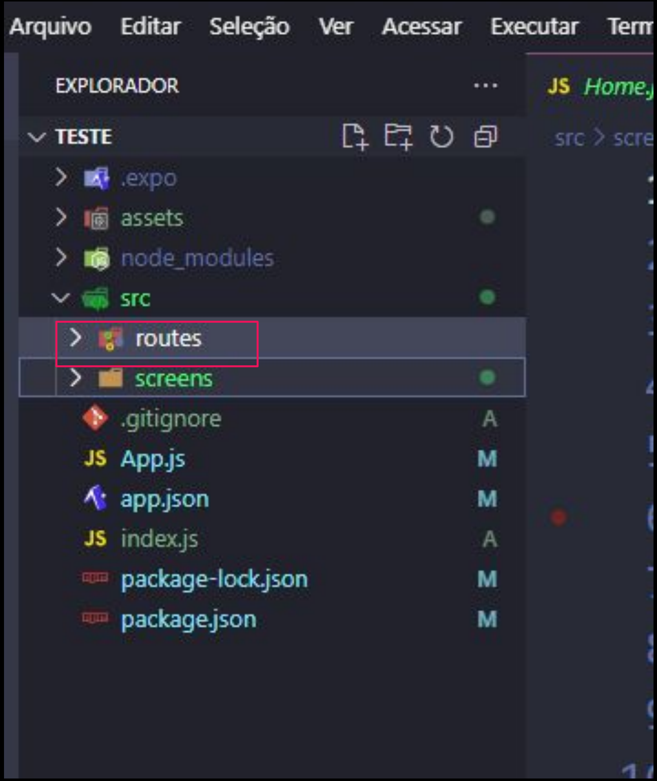
Drawer Navigator renders a navigation drawer on the side of the screen which can be opened and closed via gestures.

Criando a Tela Home e Tela Login



```
import { StyleSheet, Text, View } from 'react-native';

export default function Home() {
  return (
    <View style={styles.container}>
      <Text>Home Screen</Text>
    </View>
  );
}

const styles = StyleSheet.create({
  container: {
    flex: 1,
    backgroundColor: '#fff',
    alignItems: 'center',
    justifyContent: 'center',
  },
});
```

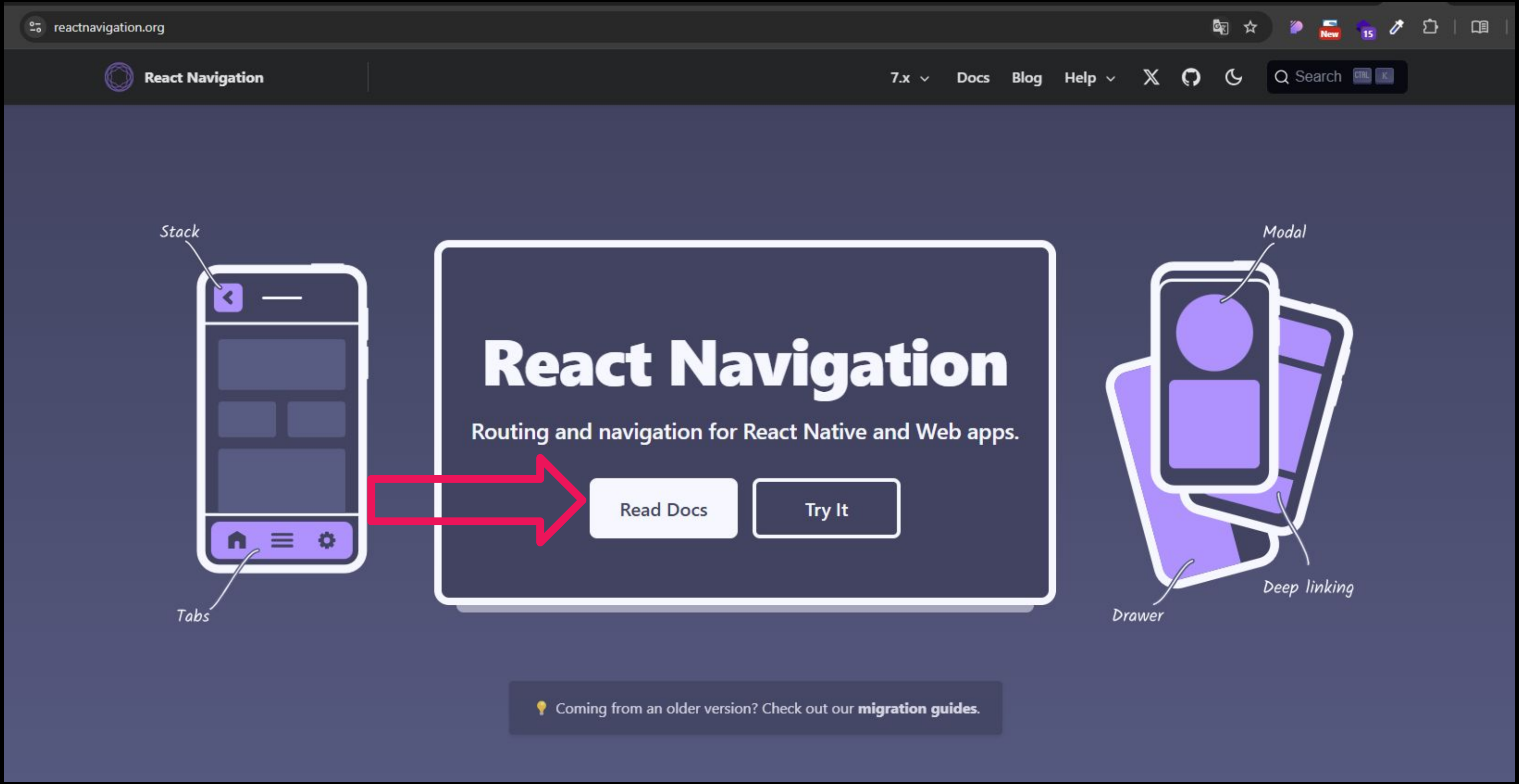
Criando a pasta Routes(rotas de navegação do nosso app.



Pesquise o React Navigation

FIAP

https://reactnavigation.org/

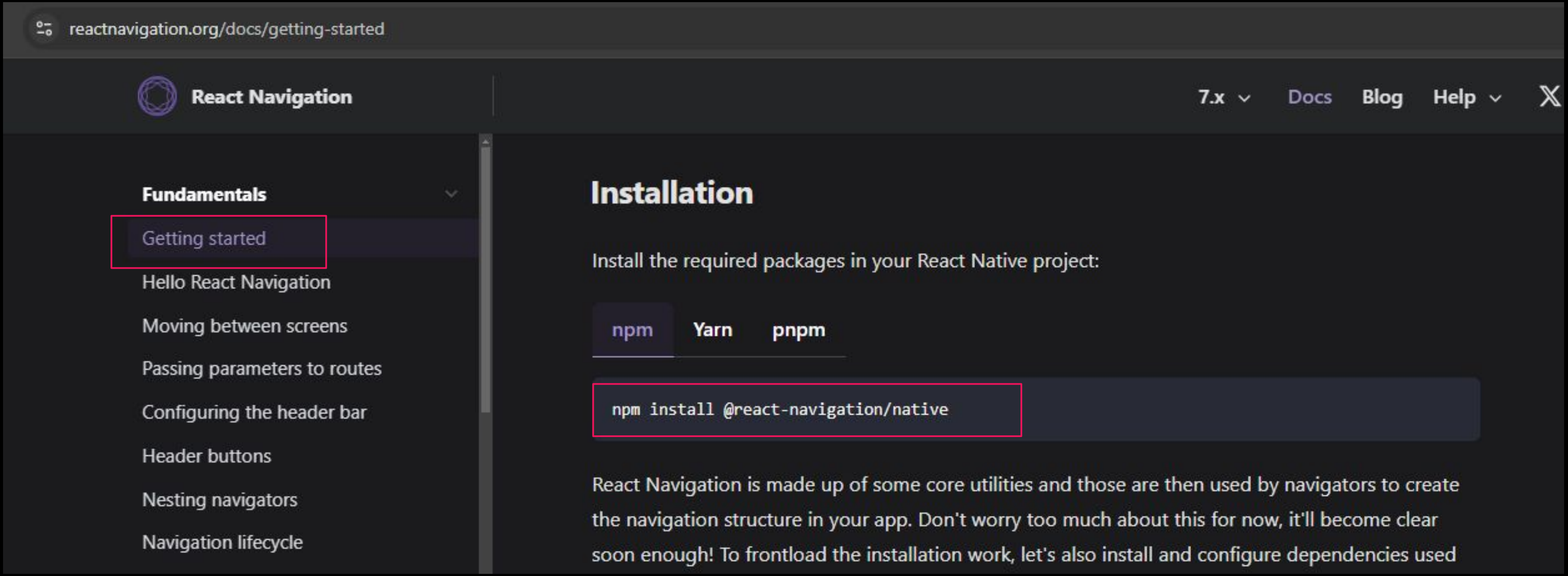


React Navigation

Routing and navigation for React Native and Web apps.

Coming from an older version? Check out our **migration guides**.

Instalação do Core de navegação



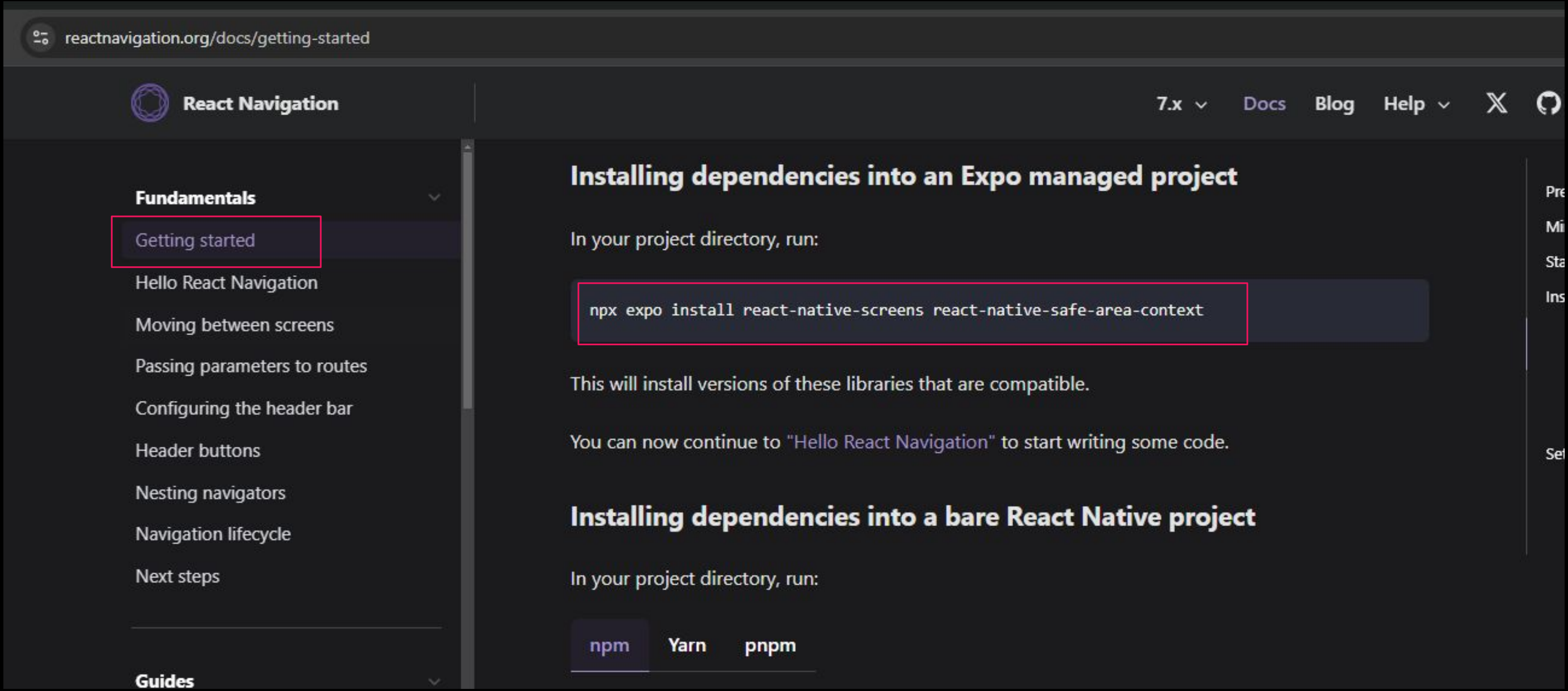
Installation

Install the required packages in your React Native project:

```
npm install @react-navigation/native
```

React Navigation is made up of some core utilities and those are then used by navigators to create the navigation structure in your app. Don't worry too much about this for now, it'll become clear soon enough! To frontload the installation work, let's also install and configure dependencies used

Instalando as dependências de navegação



Installing dependencies into an Expo managed project

In your project directory, run:

```
npx expo install react-native-screens react-native-safe-area-context
```

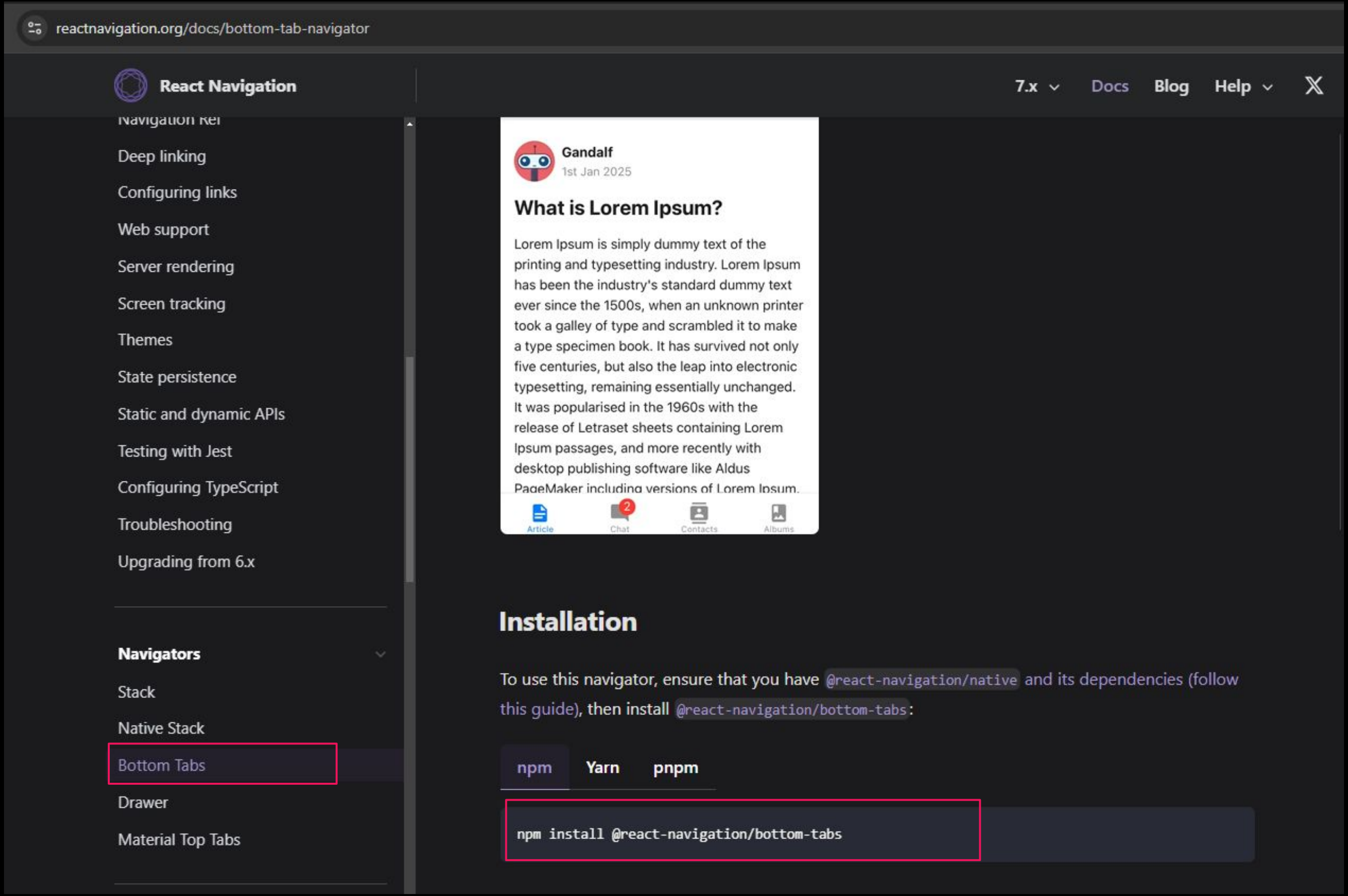
This will install versions of these libraries that are compatible.

You can now continue to "Hello React Navigation" to start writing some code.

Installing dependencies into a bare React Native project

In your project directory, run:

Instalando a navegação Bottom-tabs



reactnavigation.org/docs/bottom-tab-navigator

What is Lorem Ipsum?

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

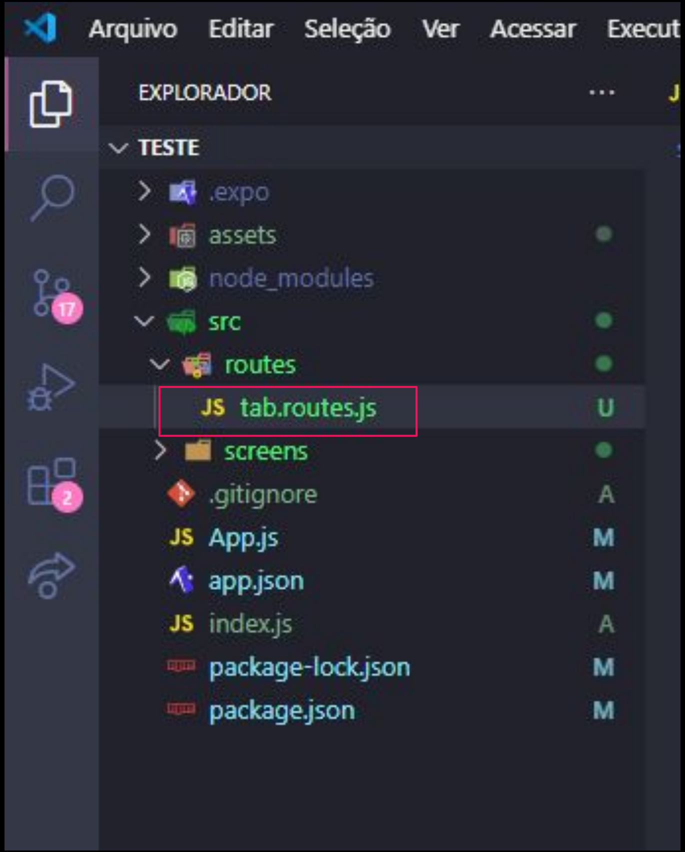
Installation

To use this navigator, ensure that you have `@react-navigation/native` and its dependencies (follow this guide), then install `@react-navigation/bottom-tabs`:

npm Yarn pnpm

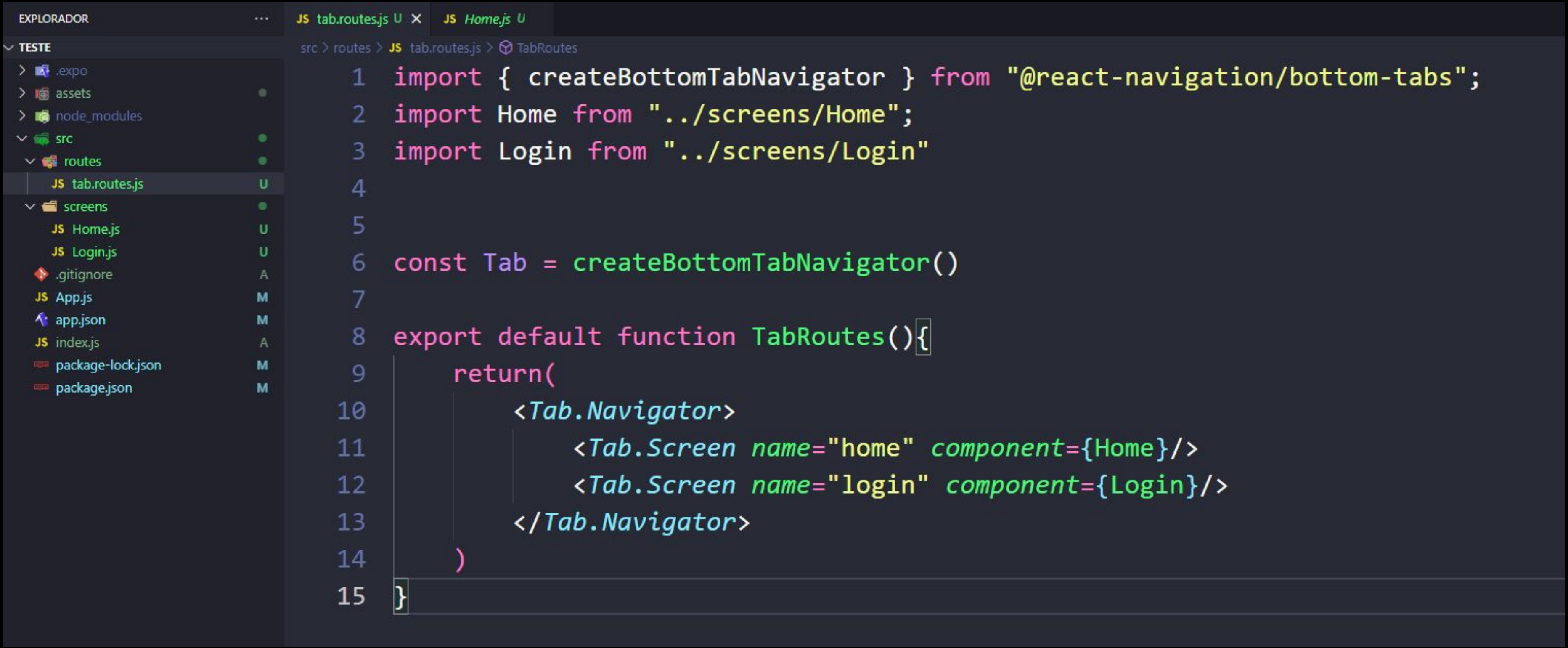
```
npm install @react-navigation/bottom-tabs
```

Criando arq de navegação Bottom



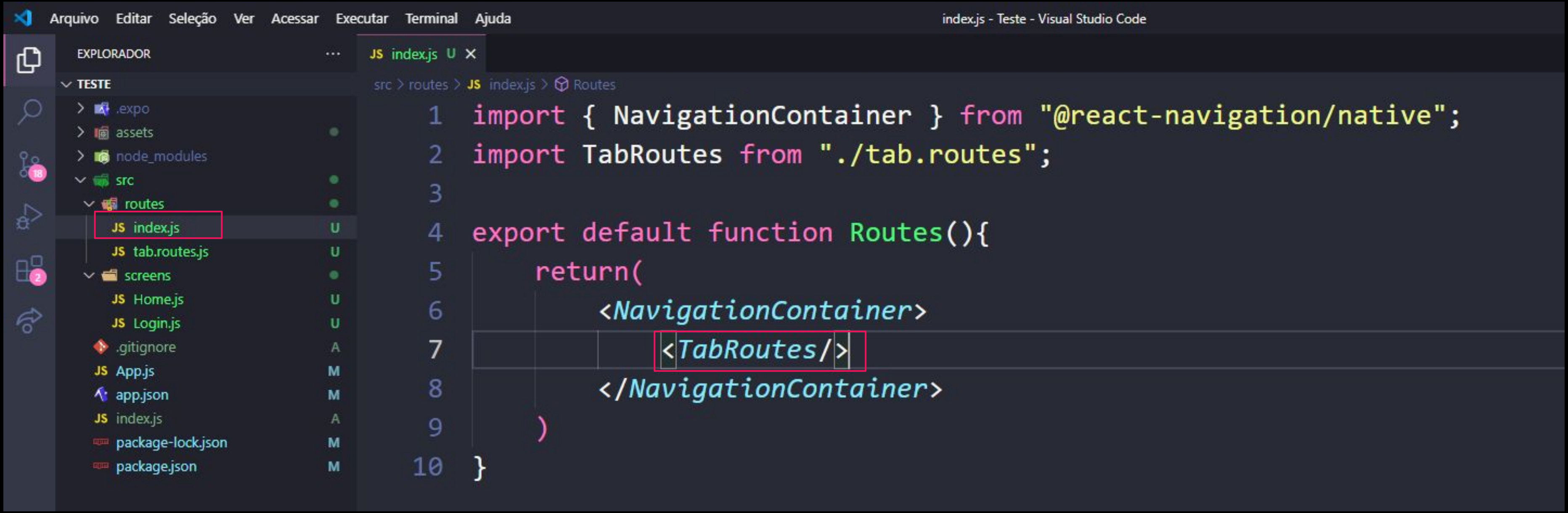
```
TESTE
  > .expo
  > assets
  > node_modules
  v src
    v routes
        tab.routes.js      U
    > screens
  .gitignore               A
  App.js                   M
  app.json                 M
  index.js                 A
  package-lock.json        M
  package.json             M
```

Arq tab.routes, configurando as rotas



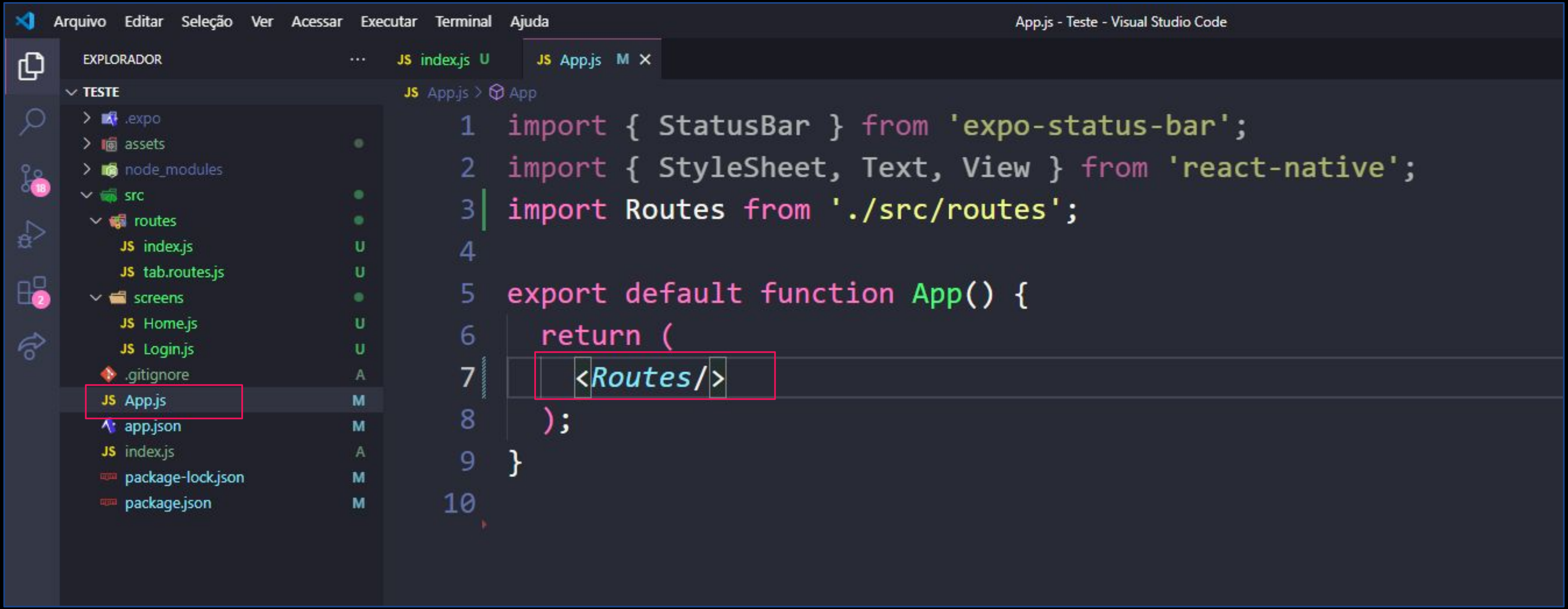
```
import { createBottomTabNavigator } from "@react-navigation/bottom-tabs";
import Home from "../screens/Home";
import Login from "../screens/Login"


const Tab = createBottomTabNavigator()

export default function TabRoutes(){
    return(
        <Tab.Navigator>
            <Tab.Screen name="home" component={Home}/>
            <Tab.Screen name="login" component={Login}/>
        </Tab.Navigator>
    )
}
```

Criando o arq Index com a estratégia de rotas escolhida



```
import { NavigationContainer } from "@react-navigation/native";
import TabRoutes from "./tab.routes";

export default function Routes(){
    return(
        <NavigationContainer>
            <TabRoutes/>
        </NavigationContainer>
    )
}
```

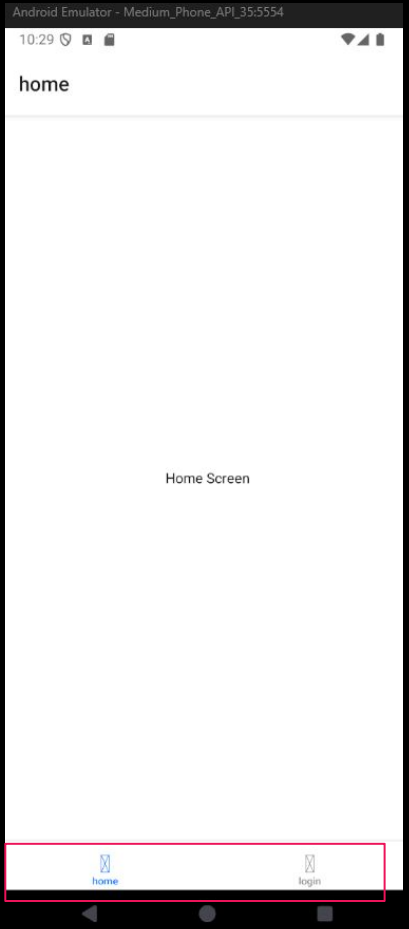
No App.js importo o meu Routes



```
import { StatusBar } from 'expo-status-bar';
import { StyleSheet, Text, View } from 'react-native';
import Routes from './src/routes';

export default function App() {
  return (
    <Routes/>
  );
}

```

Recapitulando..

Resultado até aqui

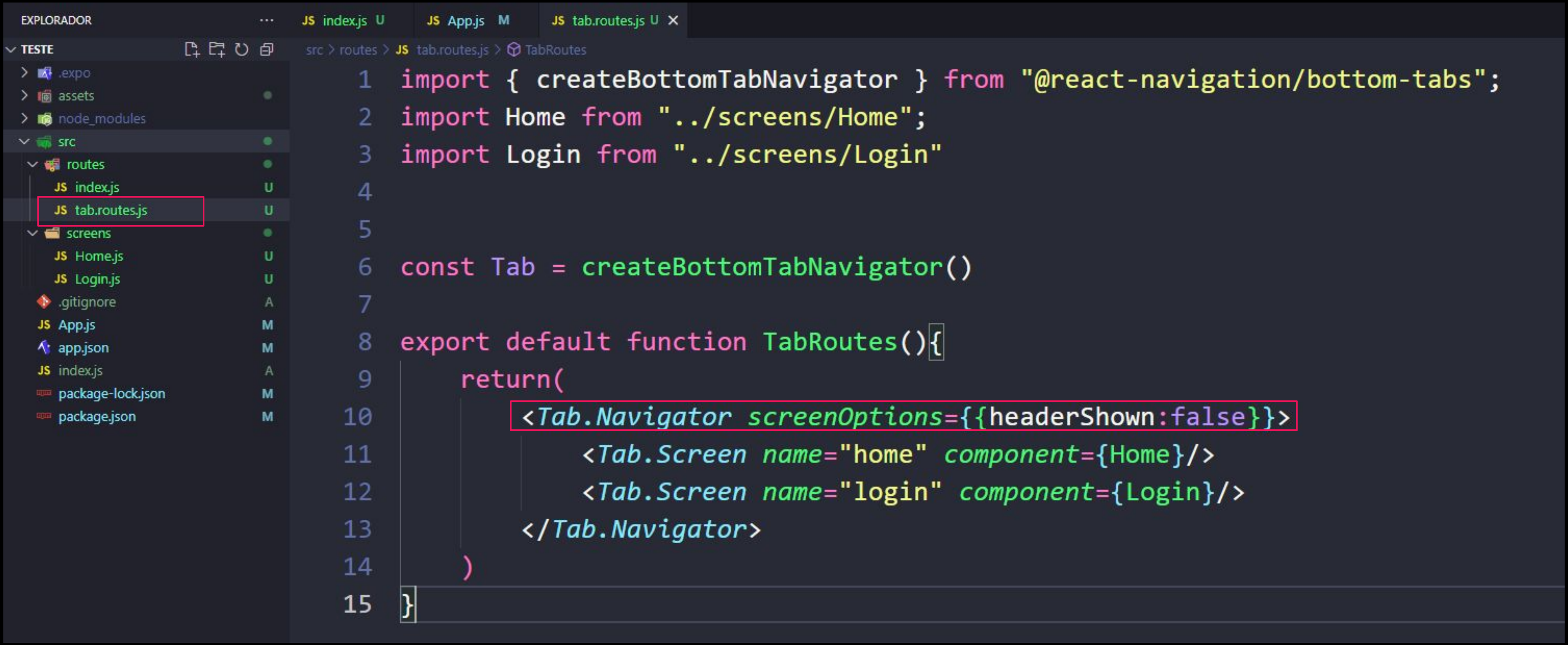


Android Emulator - Medium_Phone_API_35:5554

home

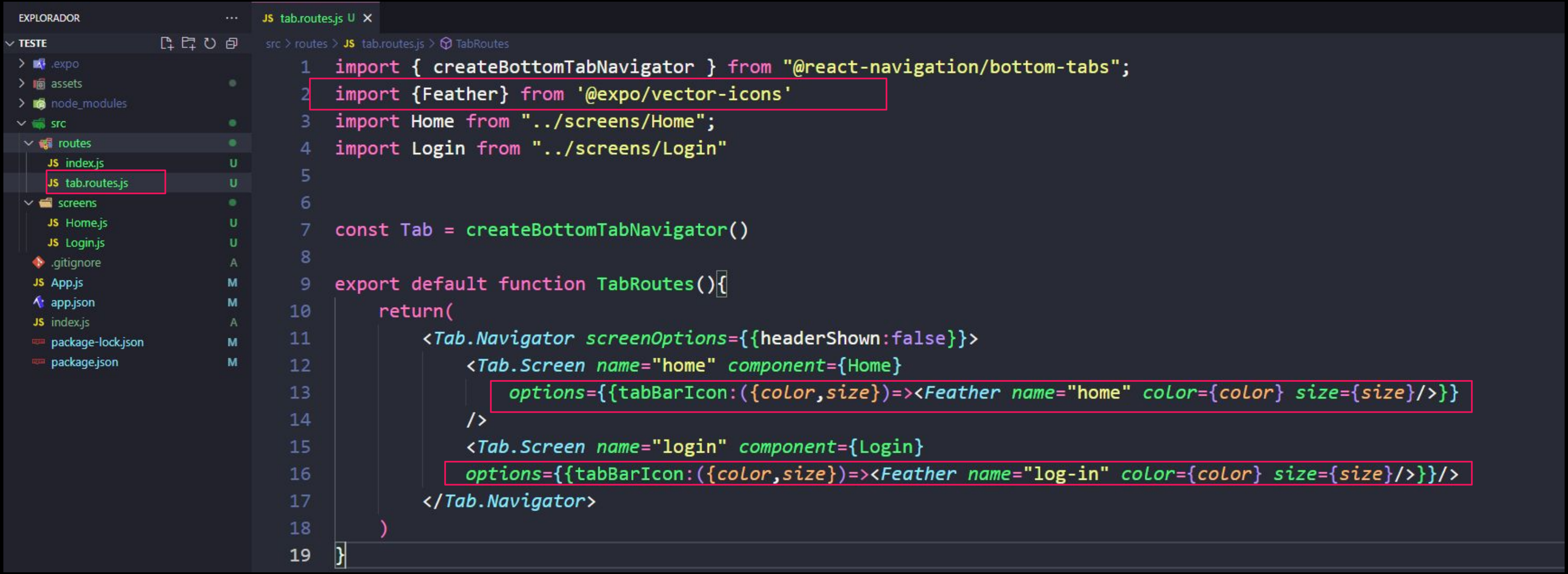
Home Screen

Tirando o cabeçalho default



```
import { createBottomTabNavigator } from "@react-navigation/bottom-tabs";
import Home from "../screens/Home";
import Login from "../screens/Login"


const Tab = createBottomTabNavigator()

export default function TabRoutes(){
    return(
        <Tab.Navigator screenOptions={{headerShown:false}}>
            <Tab.Screen name="home" component={Home}/>
            <Tab.Screen name="login" component={Login}/>
        </Tab.Navigator>
    )
}
```

Colocando Ícones e aumentando os ícones



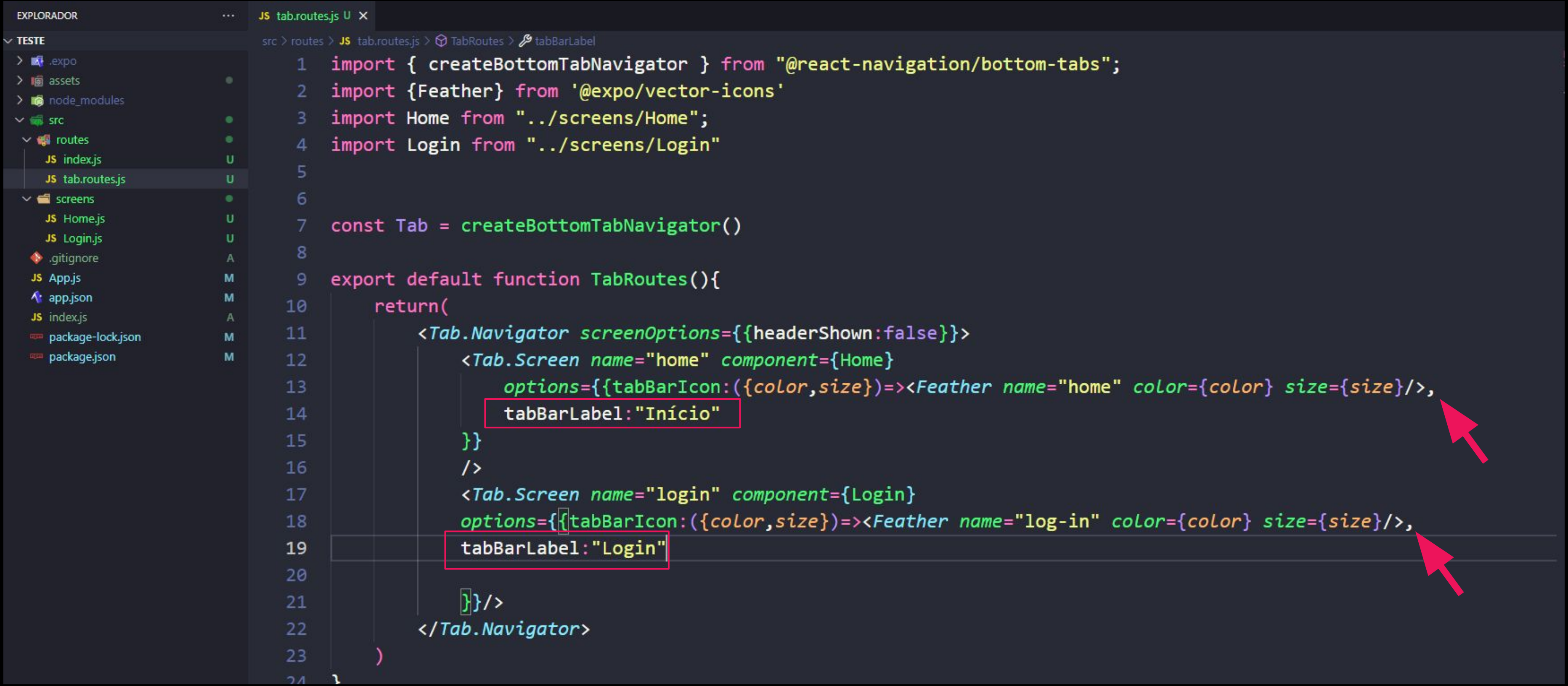
```
EXPLORADOR ...
TESTE
> .expo
> assets
> node_modules
v src
  v routes
      index.js          U
      tab.routes.js     U
  v screens
      Home.js           U
      Login.js          U
  .gitignore            A
  App.js                M
  app.json              M
  index.js              A
  package-lock.json     M
  package.json          M
```

tab.routes.js U ×

src > routes > tab.routes.js > TabRoutes

```javascript
import { createBottomTabNavigator } from "@react-navigation/bottom-tabs";
import {Feather} from '@expo/vector-icons'
import Home from "../screens/Home";
import Login from "../screens/Login"


const Tab = createBottomTabNavigator()

export default function TabRoutes(){
    return(
        <Tab.Navigator screenOptions={{headerShown:false}}>
            <Tab.Screen name="home" component={Home}
                options={{tabBarIcon:({color,size})=><Feather name="home" color={color} size={size}/>}}
            />
            <Tab.Screen name="login" component={Login}
            options={{tabBarIcon:({color,size})=><Feather name="log-in" color={color} size={size}/>}}/>
        </Tab.Navigator>
    )
}
```

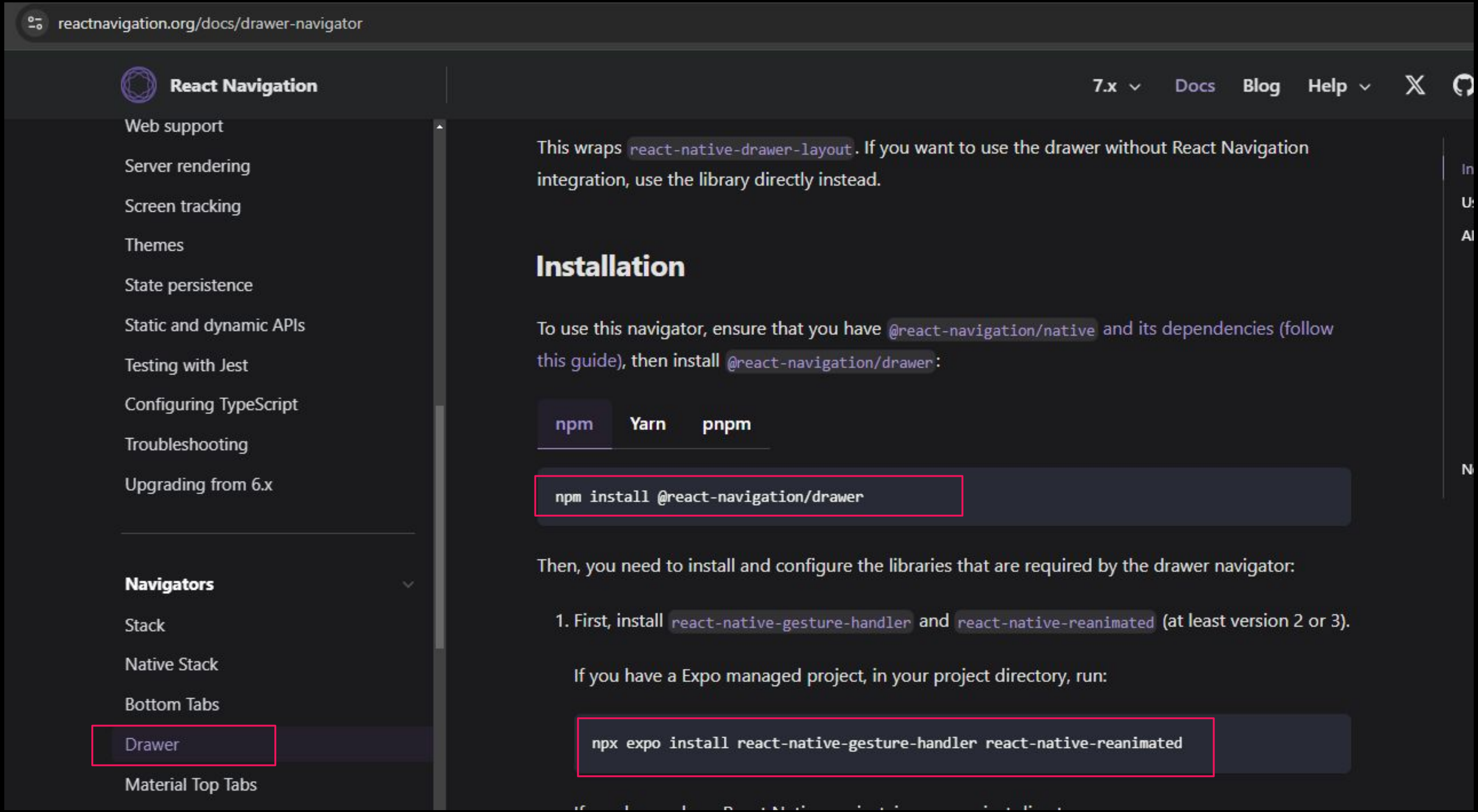
Alterando o texto do menu do bottom tabs



```
import { createBottomTabNavigator } from "@react-navigation/bottom-tabs";
import {Feather} from '@expo/vector-icons'
import Home from "../screens/Home";
import Login from "../screens/Login"


const Tab = createBottomTabNavigator()

export default function TabRoutes(){
    return(
        <Tab.Navigator screenOptions={{headerShown:false}}>
            <Tab.Screen name="home" component={Home}
                options={{tabBarIcon:({color,size})=><Feather name="home" color={color} size={size}/>,
                tabBarLabel:"Início"
            }}
            />
            <Tab.Screen name="login" component={Login}
            options={{tabBarIcon:({color,size})=><Feather name="log-in" color={color} size={size}/>,
            tabBarLabel:"Login"

            }}/>
        </Tab.Navigator>
    )
}
```

Adicionando nova forma de navegação
Drawer navigation

Instalando o Drawer Navigation no projeto



This wraps `react-native-drawer-layout`. If you want to use the drawer without React Navigation integration, use the library directly instead.

Installation

To use this navigator, ensure that you have `@react-navigation/native` and its dependencies (follow this guide), then install `@react-navigation/drawer`:

```
npm install @react-navigation/drawer
```

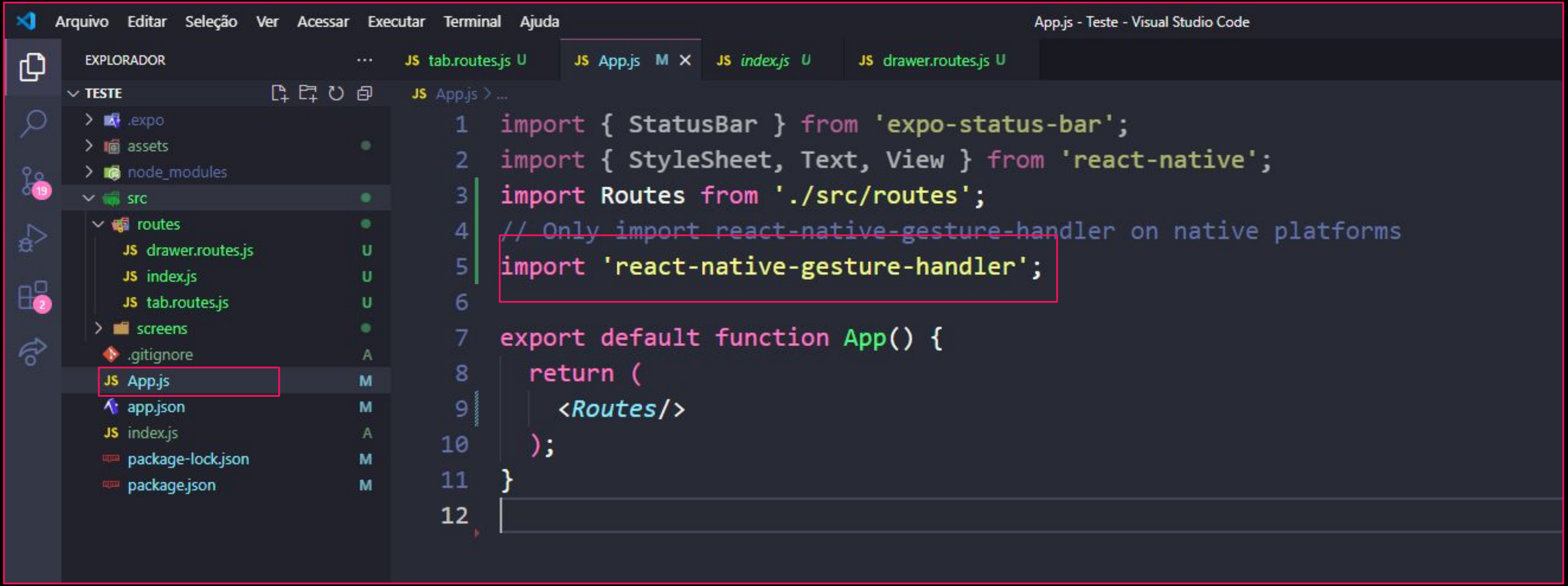
Then, you need to install and configure the libraries that are required by the drawer navigator:

1. First, install `react-native-gesture-handler` and `react-native-reanimated` (at least version 2 or 3).

   If you have a Expo managed project, in your project directory, run:

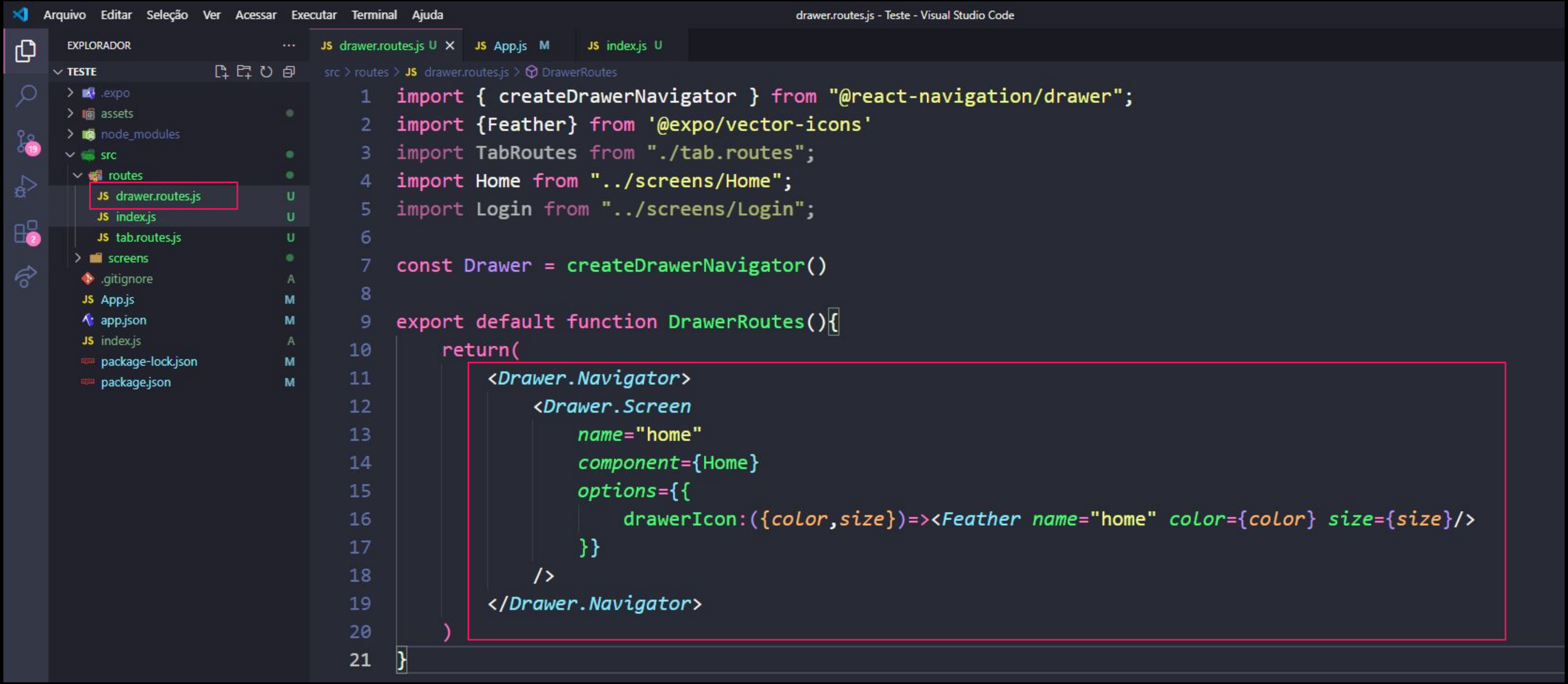
   ```
   npx expo install react-native-gesture-handler react-native-reanimated
   ```

Importando gesture-handler



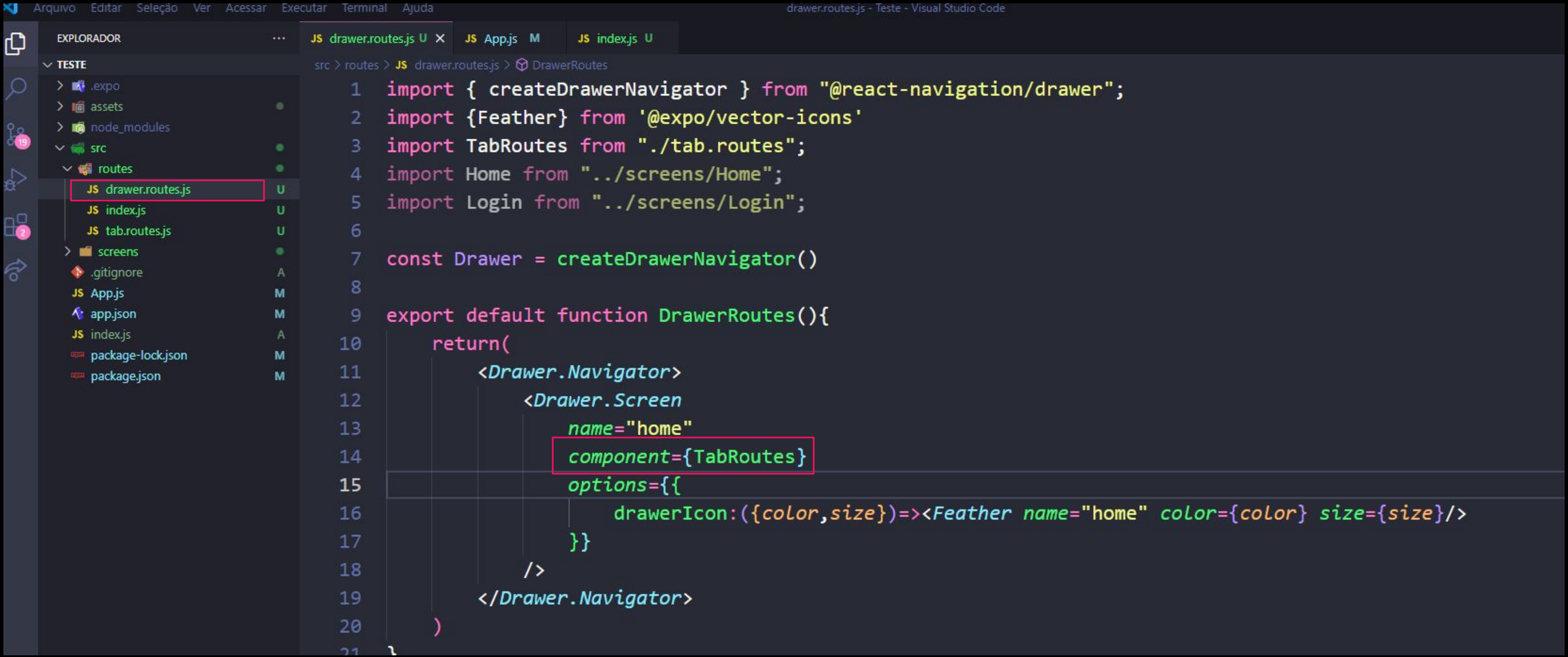
```
import { StatusBar } from 'expo-status-bar';
import { StyleSheet, Text, View } from 'react-native';
import Routes from './src/routes';
// Only import react-native-gesture-handler on native platforms
import 'react-native-gesture-handler';

export default function App() {
  return (
    <Routes/>
  );
}

```

Nosso arq drawer.routes.js



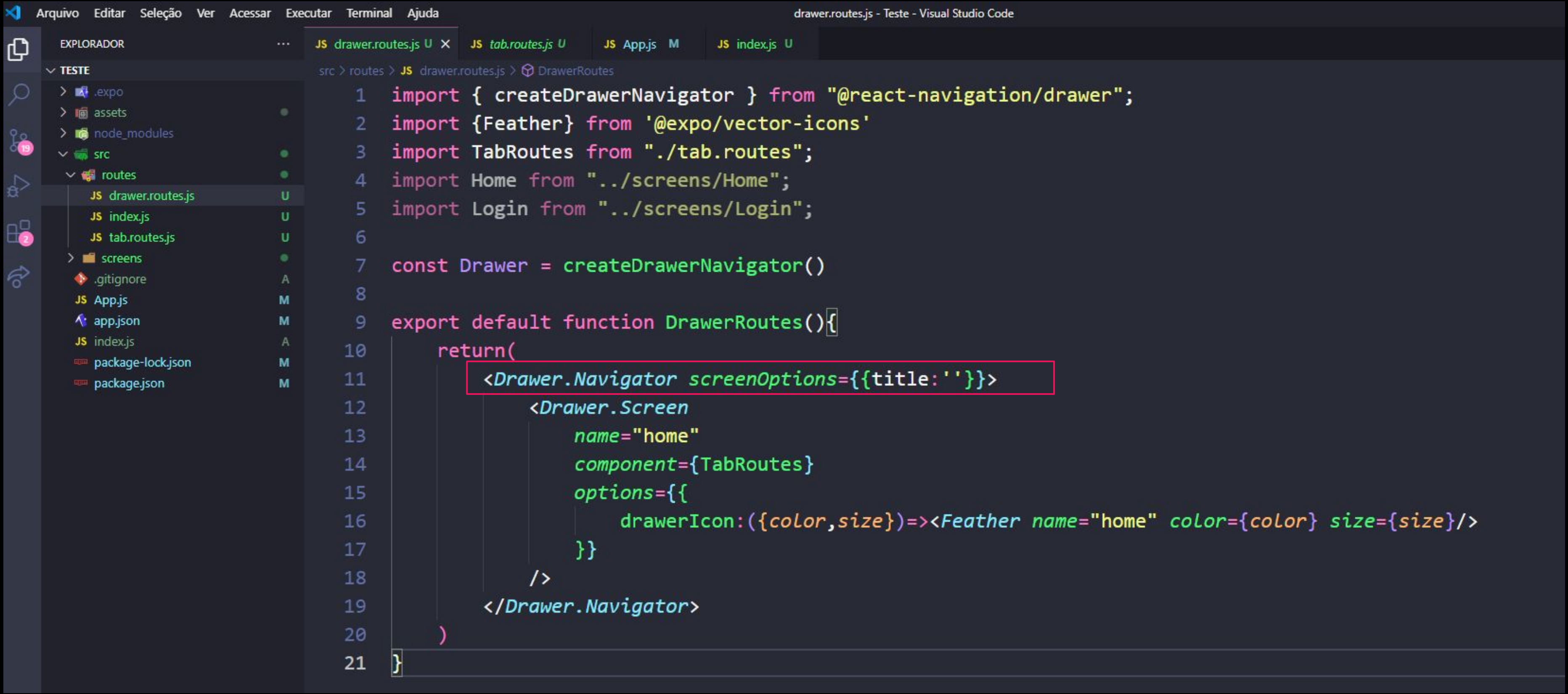
```
import { createDrawerNavigator } from "@react-navigation/drawer";
import {Feather} from '@expo/vector-icons'
import TabRoutes from "./tab.routes";
import Home from "../screens/Home";
import Login from "../screens/Login";

const Drawer = createDrawerNavigator()

export default function DrawerRoutes(){
    return(
        <Drawer.Navigator>
            <Drawer.Screen
                name="home"
                component={Home}
                options={{
                    drawerIcon:({color,size})=><Feather name="home" color={color} size={size}/>
                }}
            />
        </Drawer.Navigator>
    )
}
```

Caso eu queira os dois tipo de navegação



```
import { createDrawerNavigator } from "@react-navigation/drawer";
import {Feather} from '@expo/vector-icons'
import TabRoutes from "./tab.routes";
import Home from "../screens/Home";
import Login from "../screens/Login";

const Drawer = createDrawerNavigator()

export default function DrawerRoutes(){
    return(
        <Drawer.Navigator>
            <Drawer.Screen
                name="home"
                component={TabRoutes}
                options={{
                    drawerIcon:({color,size})=><Feather name="home" color={color} size={size}/>
                }}
            />
        </Drawer.Navigator>
    )
}
```

Escondendo o título do drawer

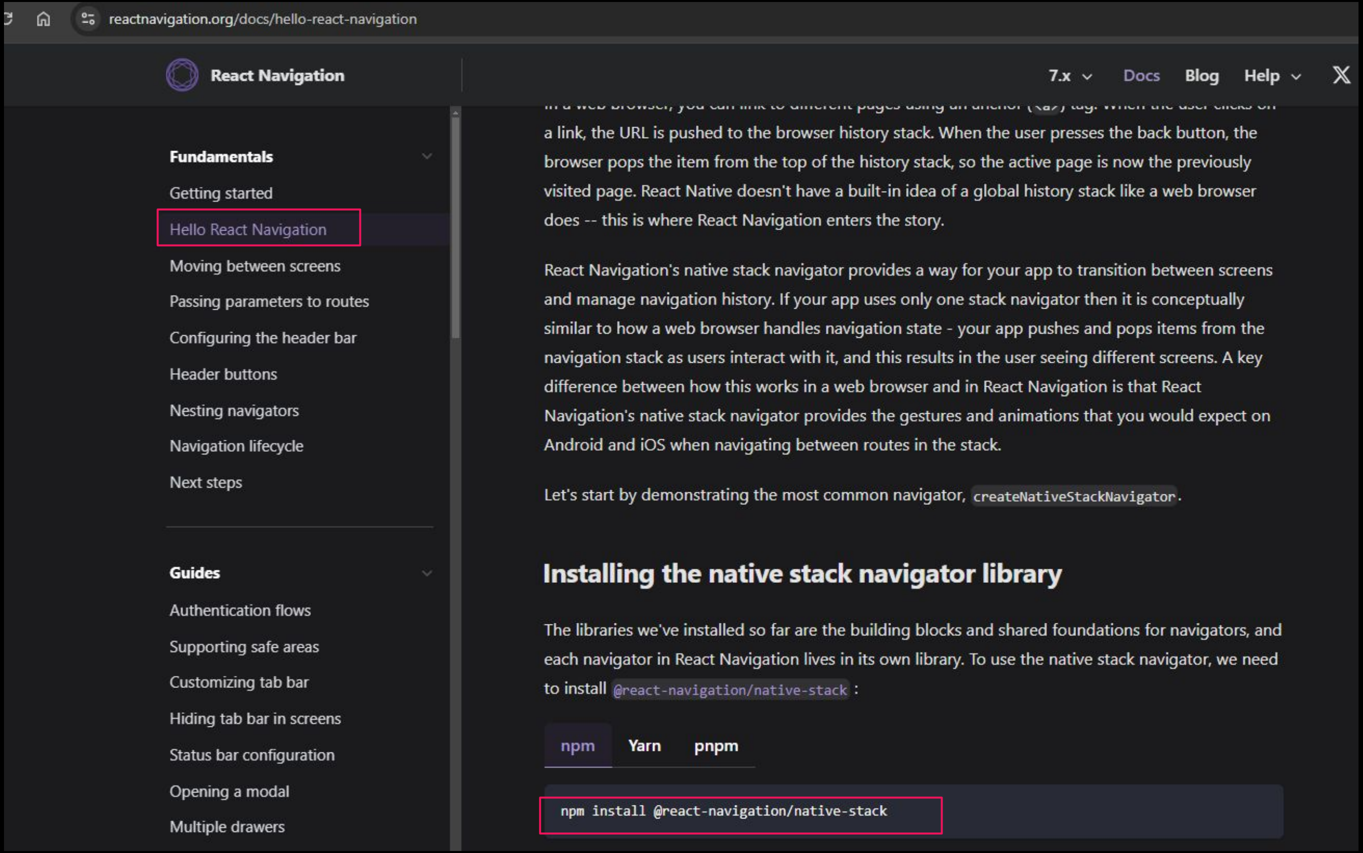


```
import { createDrawerNavigator } from "@react-navigation/drawer";
import {Feather} from '@expo/vector-icons'
import TabRoutes from "./tab.routes";
import Home from "../screens/Home";
import Login from "../screens/Login";

const Drawer = createDrawerNavigator()

export default function DrawerRoutes(){
    return(
        <Drawer.Navigator screenOptions={{title:''}}>
            <Drawer.Screen
                name="home"
                component={TabRoutes}
                options={{
                    drawerIcon:({color,size})=><Feather name="home" color={color} size={size}/>
                }}
            />
        </Drawer.Navigator>
    )
}
```

Navegação Stack

Instalação

FIAP



In a web browser, you can link to different pages using an anchor (`<a>`) tag. When the user clicks on a link, the URL is pushed to the browser history stack. When the user presses the back button, the browser pops the item from the top of the history stack, so the active page is now the previously visited page. React Native doesn't have a built-in idea of a global history stack like a web browser does -- this is where React Navigation enters the story.

React Navigation's native stack navigator provides a way for your app to transition between screens and manage navigation history. If your app uses only one stack navigator then it is conceptually similar to how a web browser handles navigation state - your app pushes and pops items from the navigation stack as users interact with it, and this results in the user seeing different screens. A key difference between how this works in a web browser and in React Navigation is that React Navigation's native stack navigator provides the gestures and animations that you would expect on Android and iOS when navigating between routes in the stack.

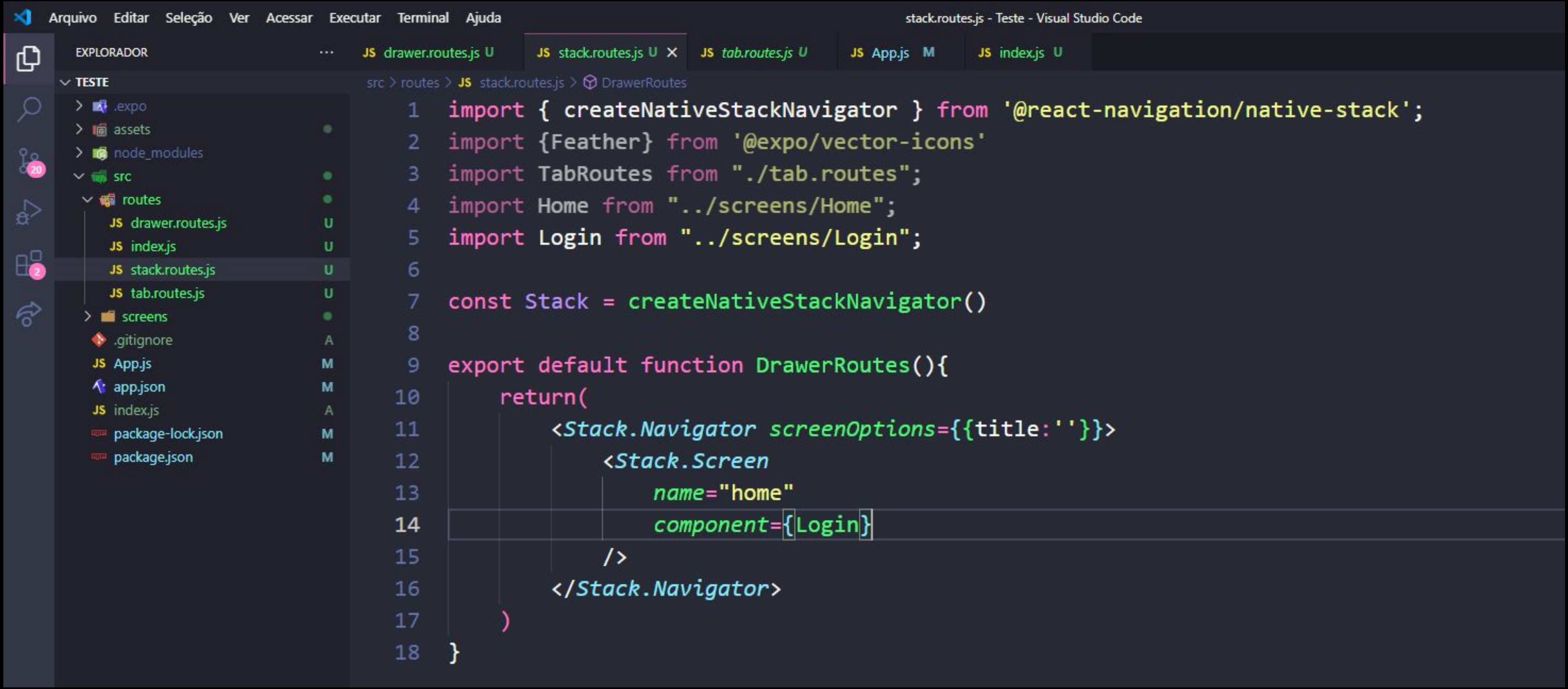
Let's start by demonstrating the most common navigator, `createNativeStackNavigator`.

Installing the native stack navigator library

The libraries we've installed so far are the building blocks and shared foundations for navigators, and each navigator in React Navigation lives in its own library. To use the native stack navigator, we need to install `@react-navigation/native-stack` :

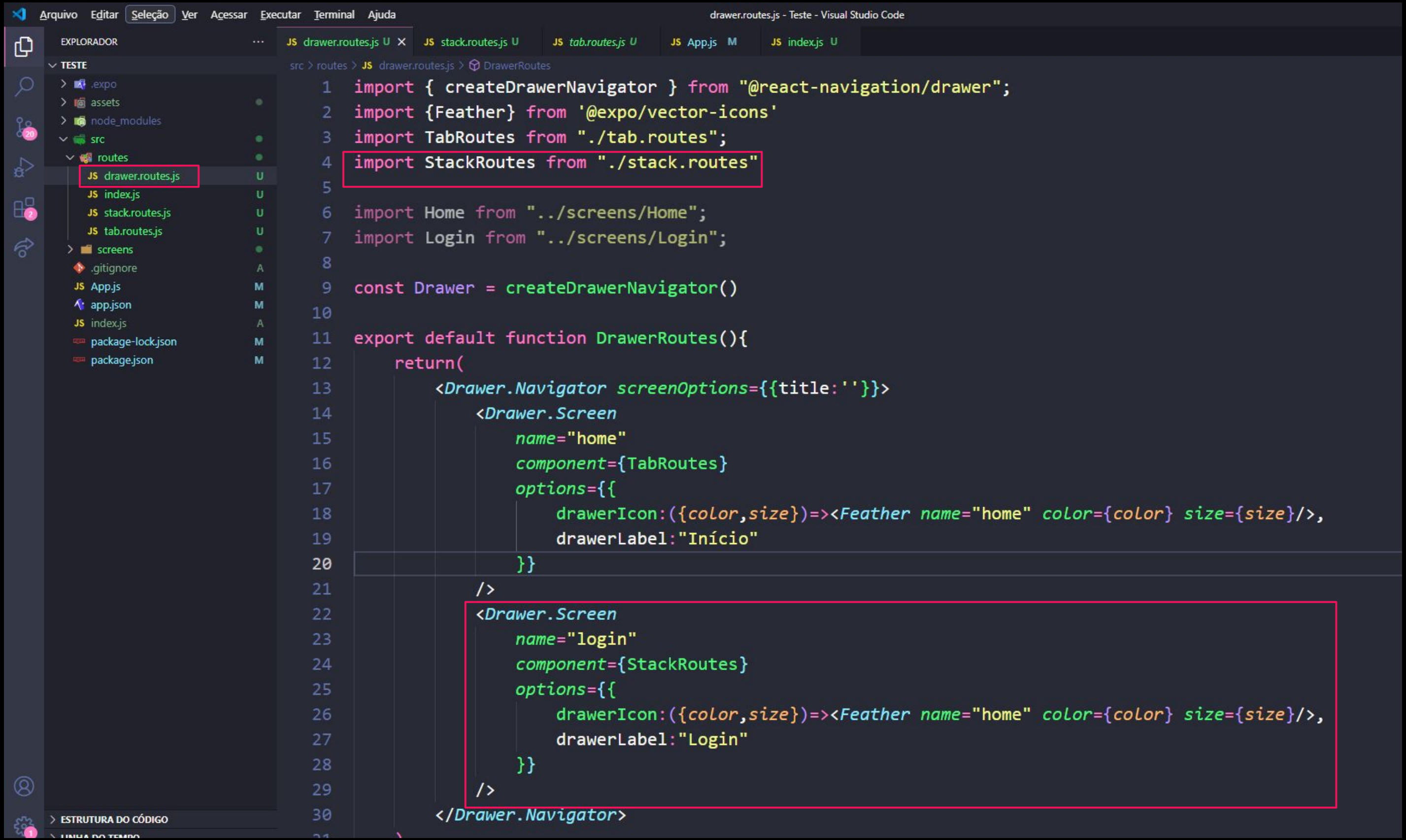
```
npm install @react-navigation/native-stack
```

Arq stack.routes.js



```
import { createNativeStackNavigator } from '@react-navigation/native-stack';
import {Feather} from '@expo/vector-icons'
import TabRoutes from "./tab.routes";
import Home from "../screens/Home";
import Login from "../screens/Login";

const Stack = createNativeStackNavigator()

export default function DrawerRoutes(){
    return(
        <Stack.Navigator screenOptions={{title:''}}>
            <Stack.Screen
                name="home"
                component={Login}
            />
        </Stack.Navigator>
    )
}
```

Importando a navegação stack



```javascript
import { createDrawerNavigator } from "@react-navigation/drawer";
import {Feather} from '@expo/vector-icons'
import TabRoutes from "./tab.routes";
import StackRoutes from "./stack.routes"

import Home from "../screens/Home";
import Login from "../screens/Login";

const Drawer = createDrawerNavigator()

export default function DrawerRoutes(){
    return(
        <Drawer.Navigator screenOptions={{title:''}}>
            <Drawer.Screen
                name="home"
                component={TabRoutes}
                options={{
                    drawerIcon:({color,size})=><Feather name="home" color={color} size={size}/>,
                    drawerLabel:"Início"
                }}
            />
            <Drawer.Screen
                name="login"
                component={StackRoutes}
                options={{
                    drawerIcon:({color,size})=><Feather name="home" color={color} size={size}/>,
                    drawerLabel:"Login"
                }}
            />
        </Drawer.Navigator>
```

Dúvidas?